

2013 Dayflow Update/Correction

It was brought to our attention that there were discrepancies in the 2012 Dayflow update/correction. Therefore in March 2013, DWR staff did a thorough investigation and fixed a number of flaws in the application and in the Dayflow process. Updated Dayflow data sets for water years 1997-2010 are now available at the Dayflow website <http://www.water.ca.gov/dayflow/output/Output.cfm>.

Dayflow is run with data that is available at the time the application is run. In this update, Dayflow data sets for the Sacramento River, San Joaquin River, Consumes River, and the Yolo Bypass were updated with USGS approved data for water years 1997-2010. Figures 1-14 show the provisional and approved data along with the differences in the two data sets. Table 1 lists water years 1997-2010 and notes the years in which there were differences between the approved and provisional data sets. Table 2 shows the maximum and average percent differences between the data sets. There are two dates to note for the Yolo Bypass that are of extreme variation that is not typical of the difference between the provisional and approved data sets. On December 19, 2004, the approved flow in the Yolo Bypass was 1,137 cfs and the provisional flow was 27 cfs, for a difference of 4111%. On January 24, 2010, the Yolo Bypass approved flow was 5,926 cfs and the provisional flow was 116 cfs for a difference of 5009%.

Table 1

USGS Stations Differences (Approved - Provisional) Matrix for WY 1997-2010									
WY	SAC	SJR	COSUMNES	YOLO BYPASS	Notation:				
1997	N	N	Y	N	Y= yes there is a difference between approved and provisional flows				
1998	N	Y	Y	Y	N=no there is no difference between approved and provisional flows				
1999	N	N	N	Y					
2000	N	N	N	N					
2001	N	N	N	N					
2002	Y	Y	Y	Y					
2003	N	N	N	N					
2004	Y	N	Y	Y					
2005	N	Y	Y	Y					
2006	N	Y	N	N					
2007	N	N	N	N					
2008	Y	N	N	N					
2009	Y	N	N	N					
2010	N	Y	N	Y					

Table 2

USGS Percent Difference Matrix of (Max / Avg) for WY 1997-2010					
WY	SAC	SJR	COSUMNES	YOLO BYPASS	
1997	N	N	19.9/2.9	N	
1998	N	4.8/0.3	15.1/1.3	97.4/17.2	
1999	N	N	N	95.2/0.7	
2000	N	N	N	N	
2001	N	N	N	N	
2002	0.5/0.1	0.4/0.2	25/0.3	0.3/0	
2003	N	N	N	N	
2004	1.4/0	N	25/0.5	4111/17.4	For Yolo Bypass: Dec 19 approved flow was 1,137 cfs and provisional flow was 27 cfs
2005	N	13.2/0.5	9.1/0.2	10.8/0.2	
2006	N	0.7/0.1	N	N	
2007	N	N	N	N	
2008	10.8/1.6	N	N	N	
2009	11.8/2.0	N	N	N	
2010	N	10.2/0.2	N	5009/26.3	For Yolo Bypass: Jan 24 approved flow was 5,926 cfs and provisional flow was 116 cfs

Figure 1: Water Year 1997

Provisional and Approved Flows and the Difference (all units in cfs)



Figure 2: Water Year 1998

Provisional and Approved Flows and the Difference (all units in cfs)



Figure 3: Water Year 1999

Provisional and Approved Flows and the Difference (all units in cfs)



Figure 4: Water Year 2000

Provisional and Approved Flows and the Difference (all units in cfs)

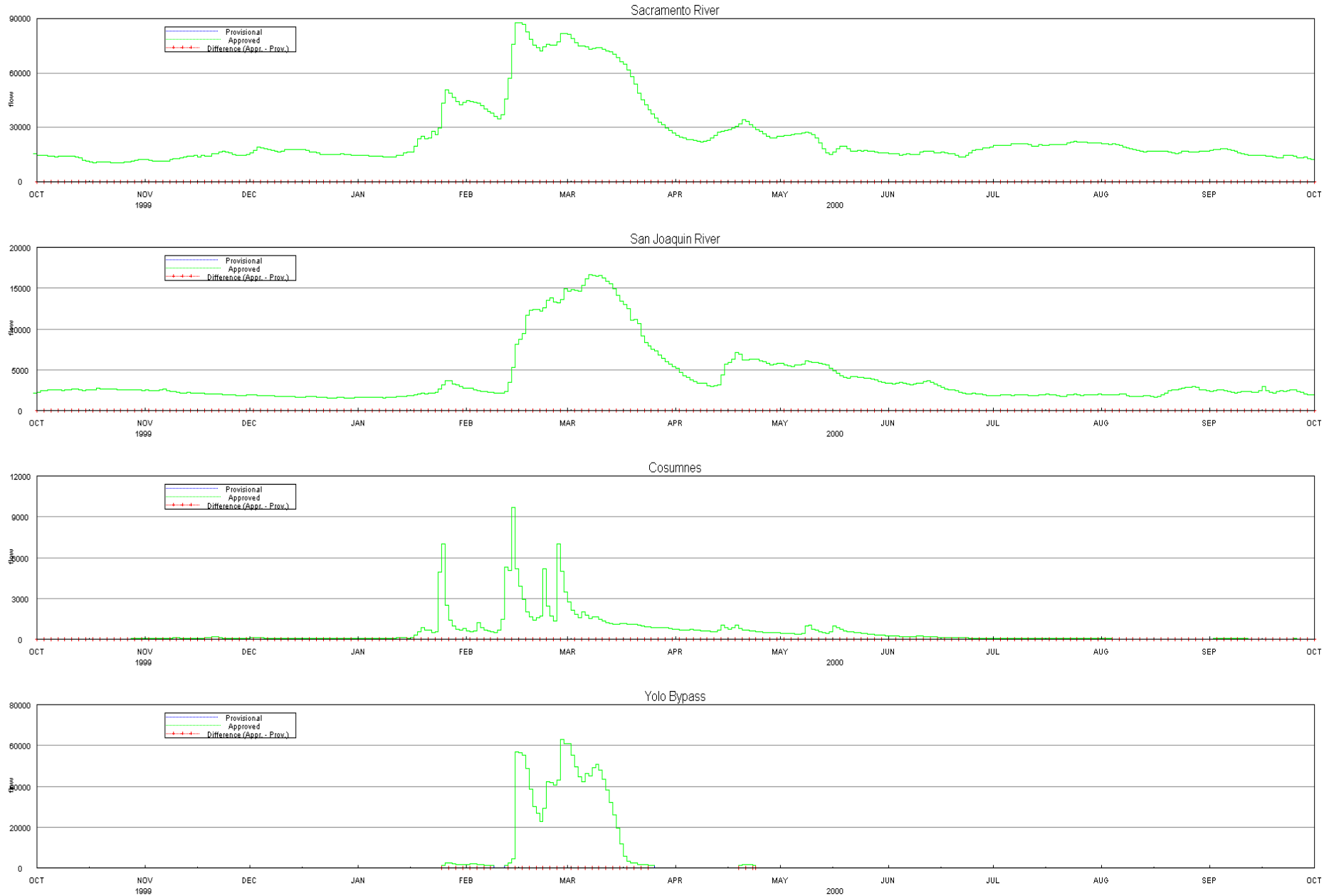


Figure 5: Water Year 2001

Provisional and Approved Flows and the Difference (all units in cfs)

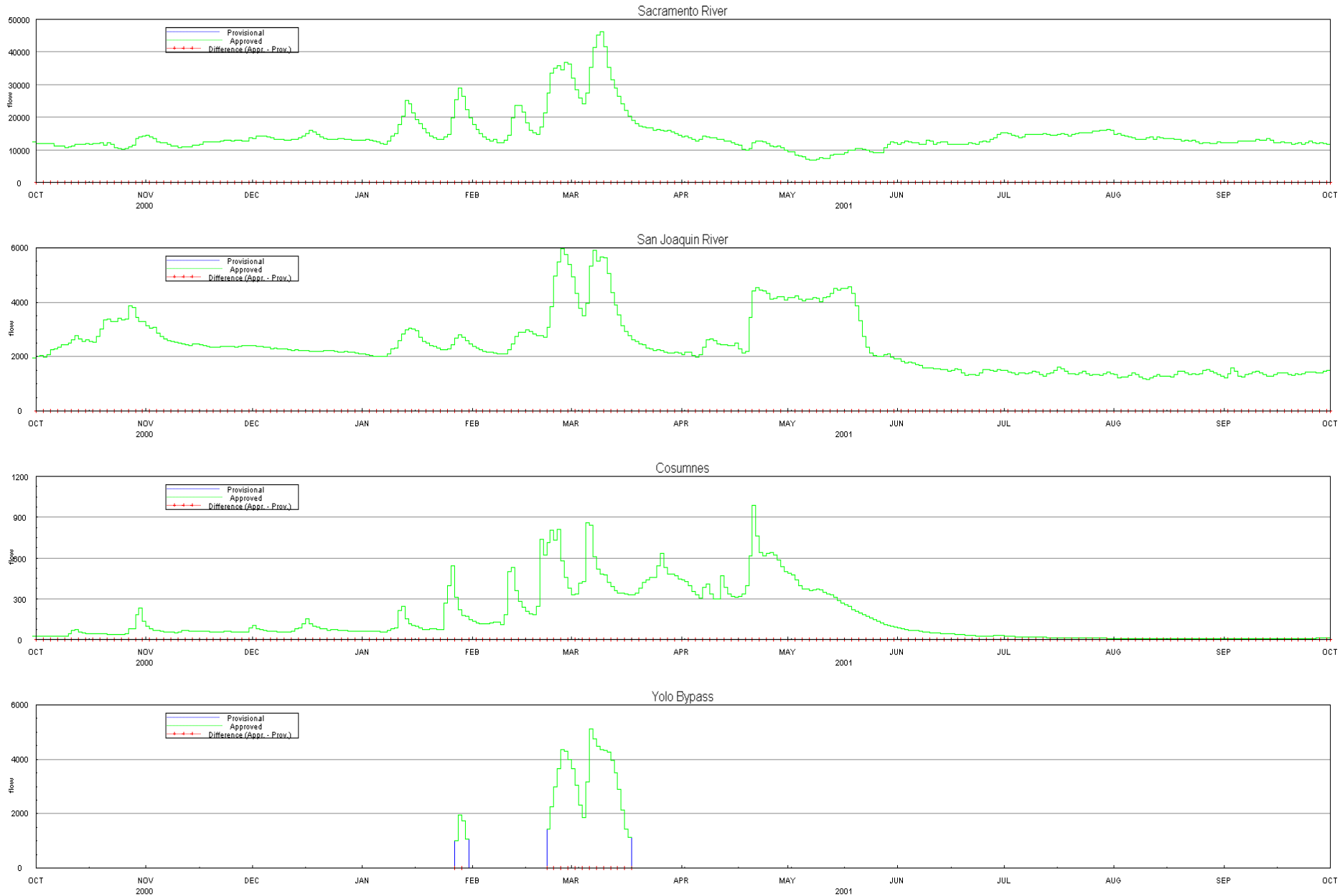


Figure 6: Water Year 2002

Provisional and Approved Flows and the Difference (all units in cfs)

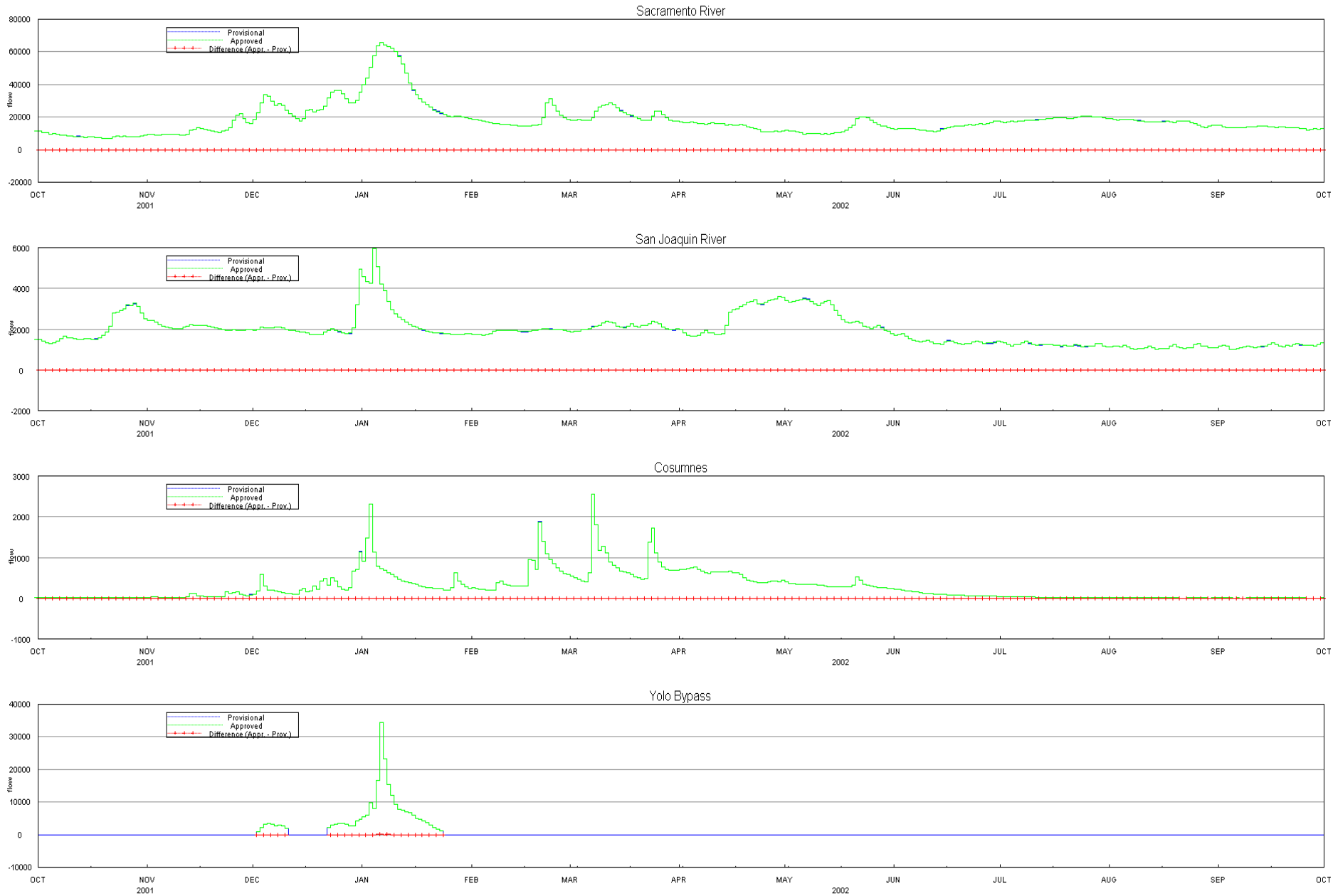


Figure 7: Water Year 2003

Provisional and Approved Flows and the Difference (all units in cfs)

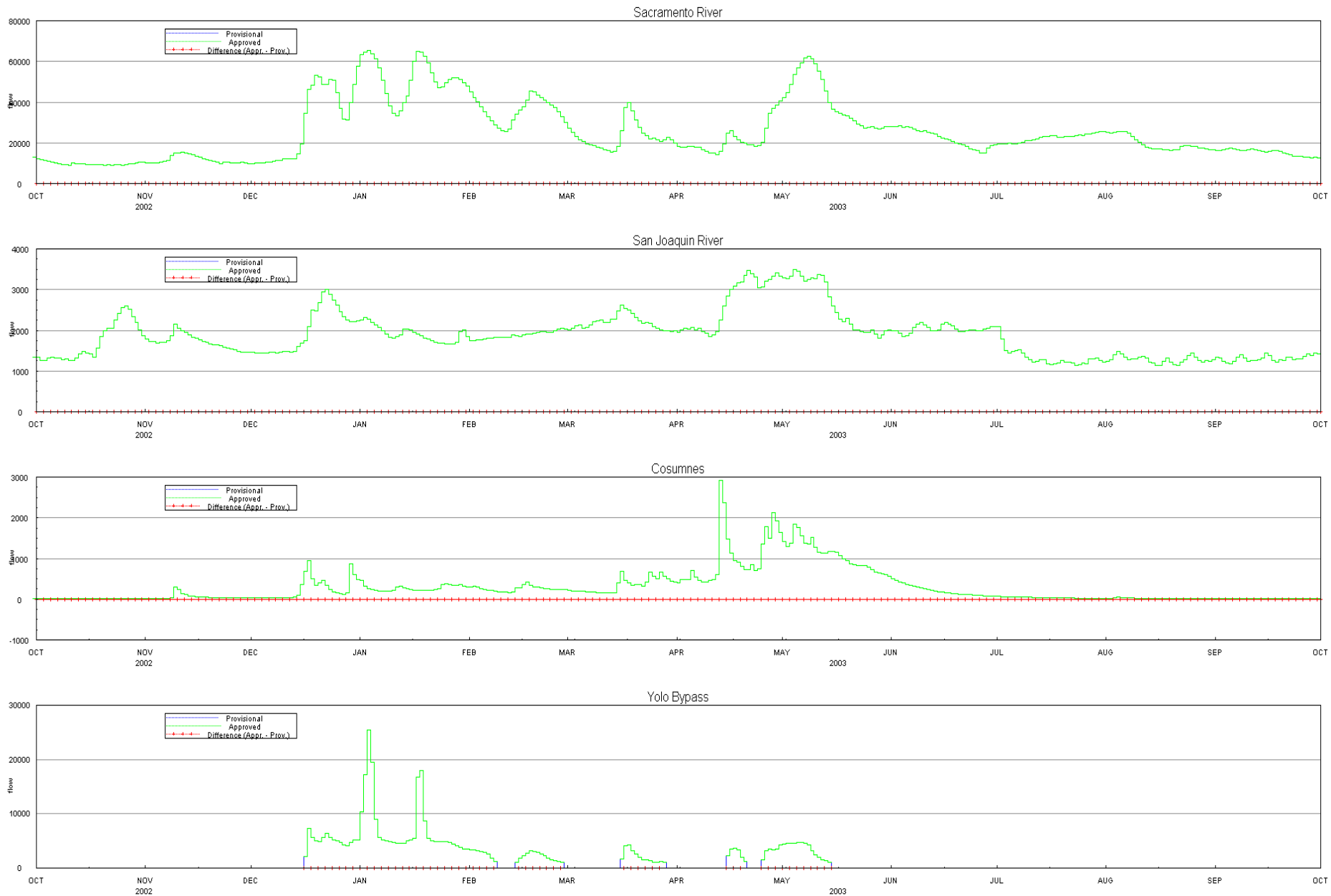
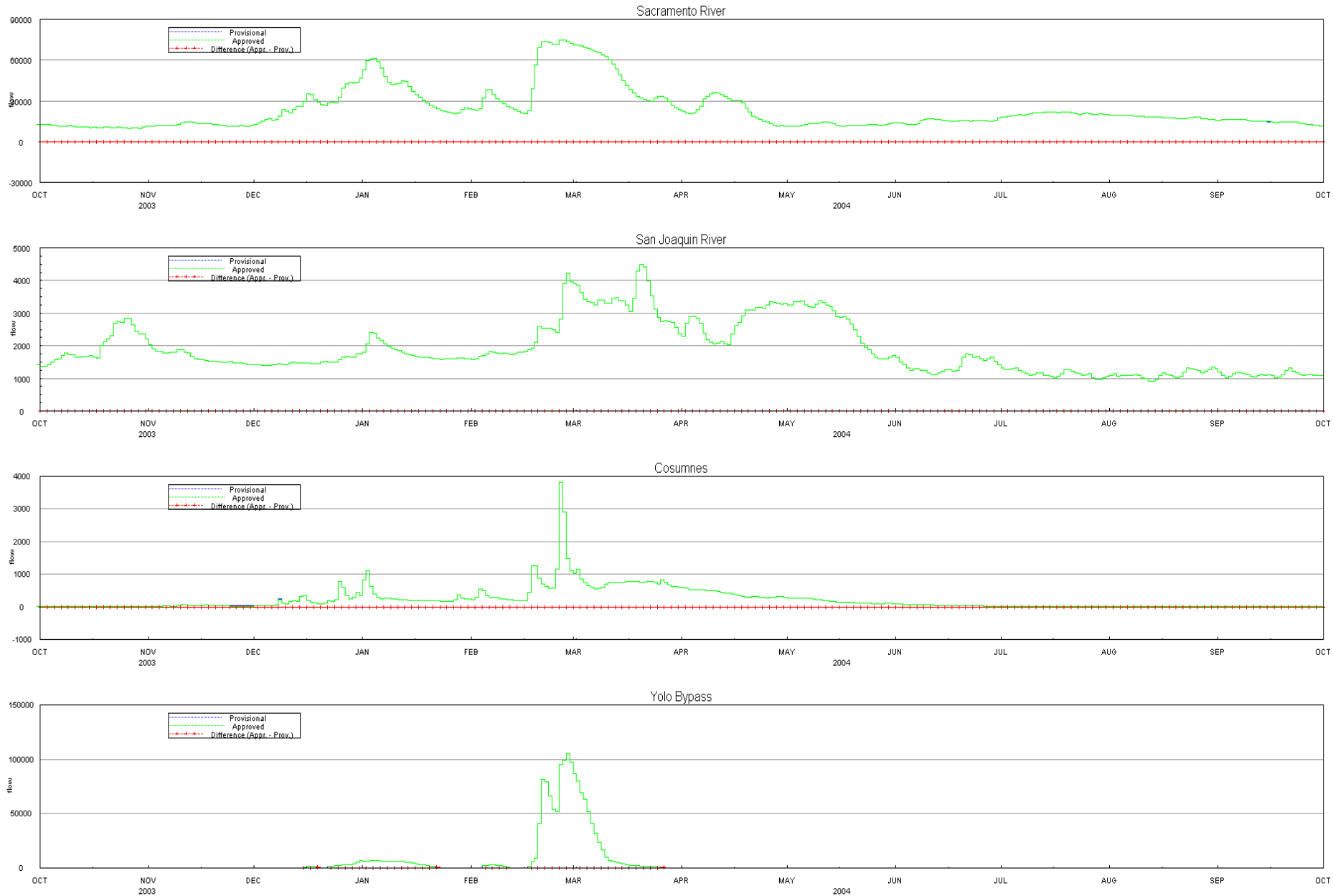


Figure 8: Water Year 2004

Provisional and Approved Flows and the Difference (all units in cfs)



Provisional and Approved Flows and the Difference (all units in cfs)



Provisional and Approved Flows and the Difference (all units in cfs)



Figure 11: Water Year 2007

Provisional and Approved Flows and the Difference (all units in cfs)

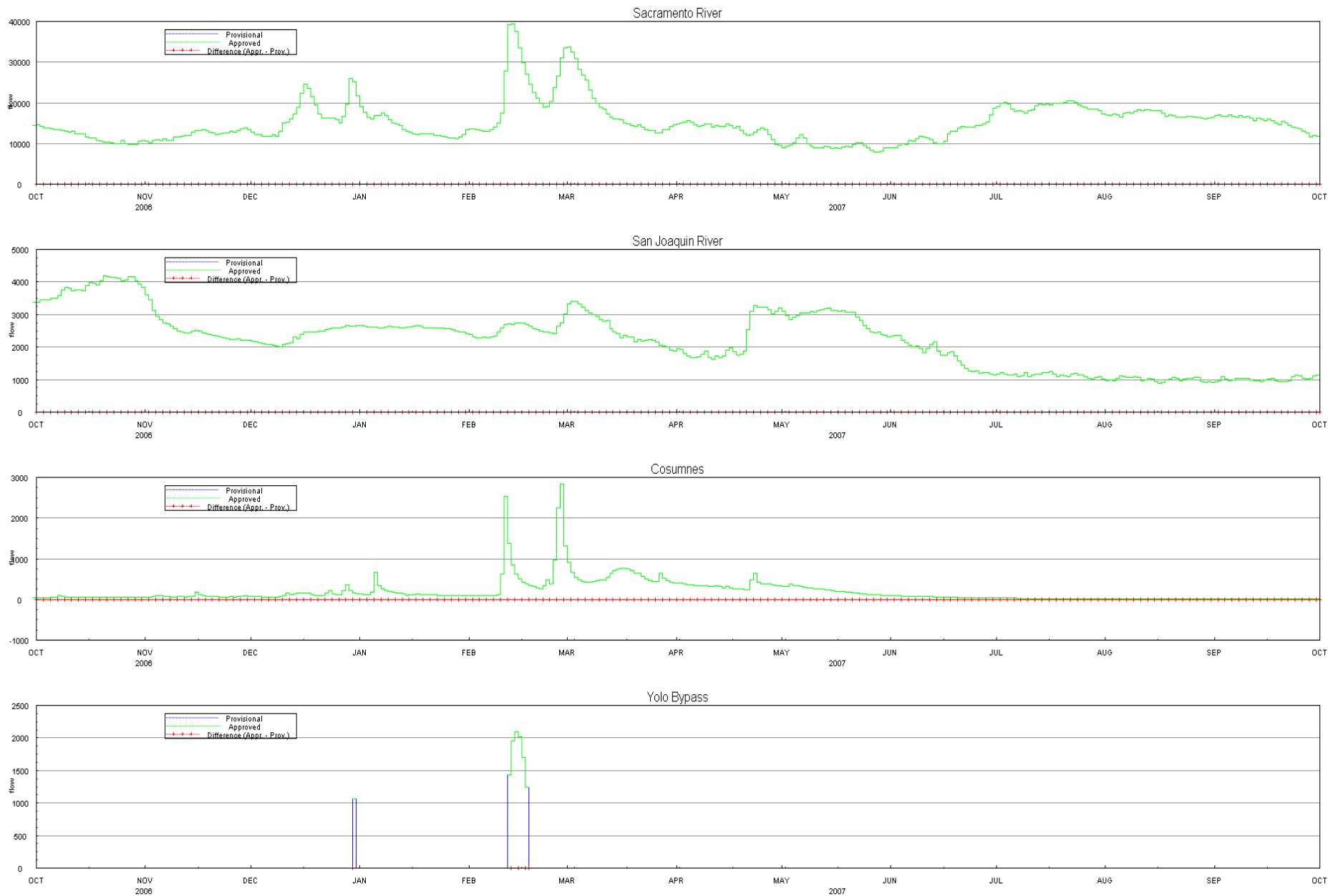


Figure 12: Water Year 2008

Provisional and Approved Flows and the Difference (all units in cfs)

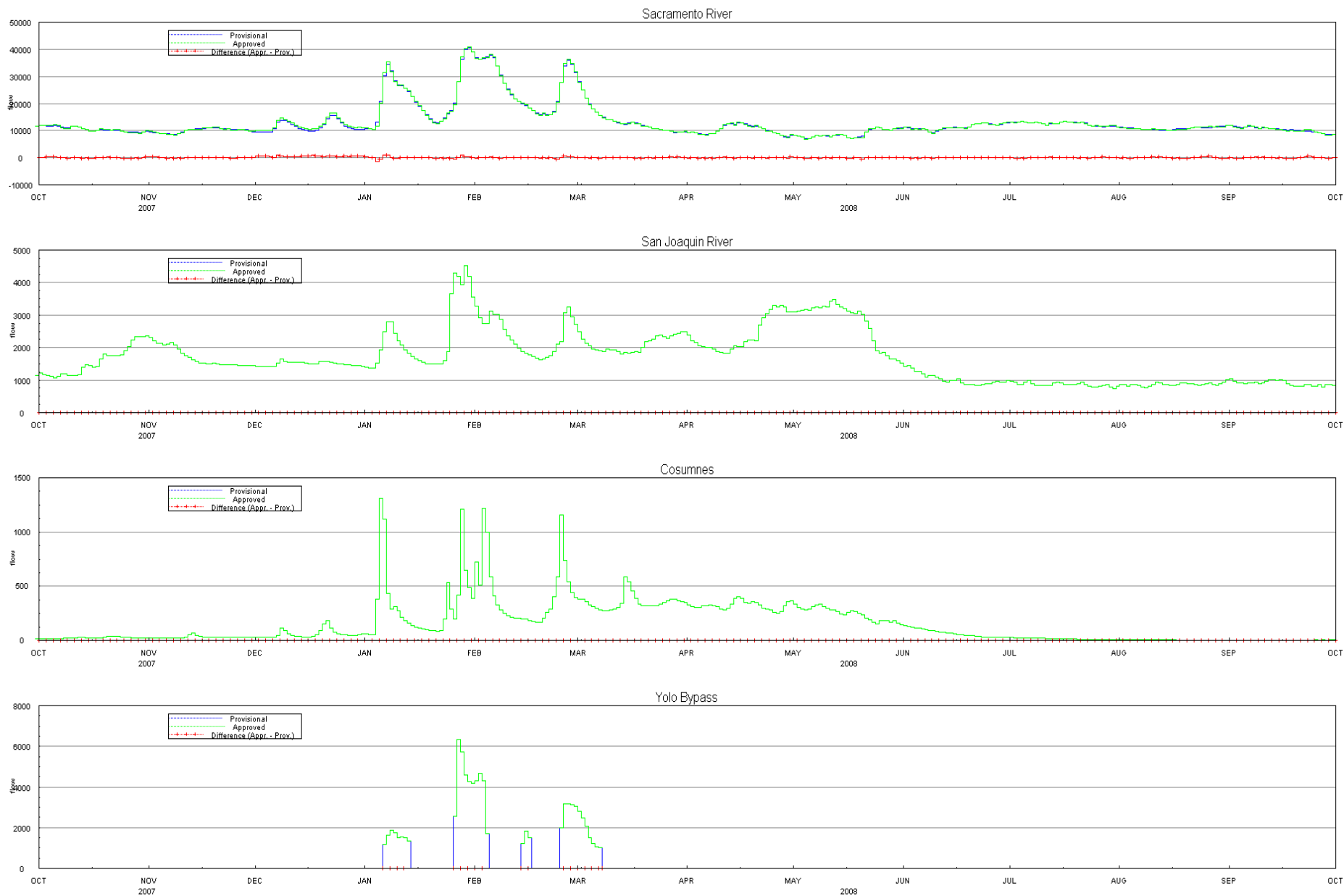


Figure 14: Water Year 2010

Provisional and Approved Flows and the Difference (all units in cfs)

